Name

Algebra with Logarithms - Binomial over Binomial and Constant

1

Simplify and solve for y

$$\log_2\left(\frac{y+8}{y-7}\right)=4$$

A $y=8$

B $y=10$

2

Simplify and solve for z

$$\log_2\left(\frac{z+7}{z-7}\right)=3$$

A $z=8$

B $z=9$

3

Simplify and solve for t

$$\log_2\left(\frac{t+7}{t-7}\right)=3$$

A $t=10$

B $t=9$

4

Simplify and solve for w

$$\log_2\left(\frac{w+6}{w-8}\right)=3$$

A $w=10$

B $w=11$

5

Simplify and solve for z

$$\log_2\left(\frac{z+7}{z-8}\right)=4$$

A $z=8$

B $z=9$

6

Simplify and solve for y

$$\log_4\left(\frac{y+8}{y-7}\right)=2$$

A $y=9$

B $y=8$

7

Simplify and solve for n

$$\log_4\left(\frac{n+7}{n-8}\right)=2$$

A $n=8$

B $n=9$

8

Simplify and solve for x

$$\log_2\left(\frac{x-9}{x-2}\right)=3$$

A $x=1$

B $x=2$